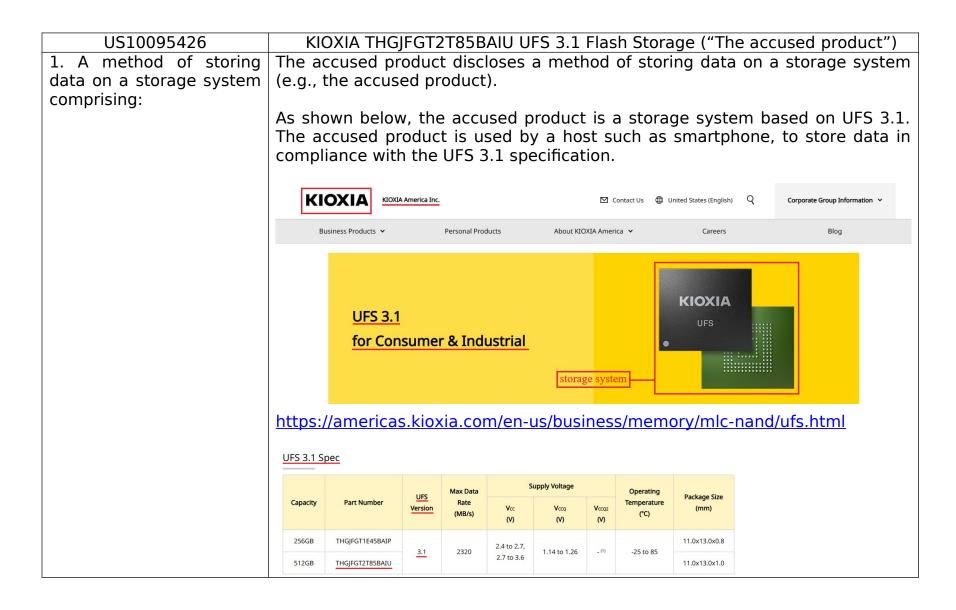
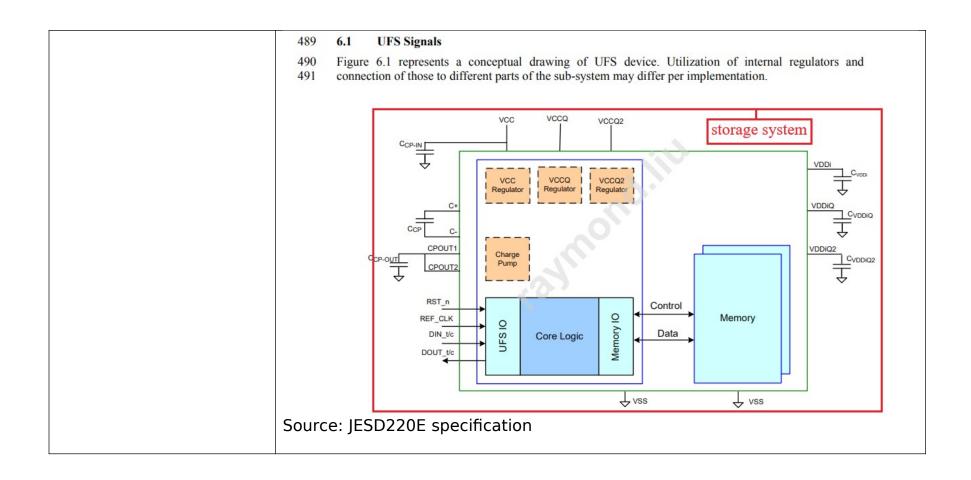
Exhibit 2

Method Claim: 1



https://americas.kioxia.com/en-us/business/memory/mlc-nand/ufs.html UNIVERSAL FLASH STORAGE (UFS), VERSION 3.1 1 (From JEDEC Board Ballot JCB-19-31, formulated under the cognizance of the JC-64.1 Subcommittee 3 on Electrical Specifications and Command Protocols, Item 135.99) Scope This standard specifies the characteristics of the UFS electrical interface and the memory device. Such characteristics include (among others) low power consumption, high data throughput, low electromagnetic interference and optimization for mass memory subsystem efficiency. The UFS electrical interface is based on an advanced differential interface by MIPI M-PHY specification which together with the MIPI UniPro specification forms the interconnect of the UFS interface. The architectural model is referencing the INCITS T10 (SCSI) SAM standard and the command protocol is based on INCITS T10 10 (SCSI) SPC and SBC standards. 11 Source: JESD220E specification



Foreword

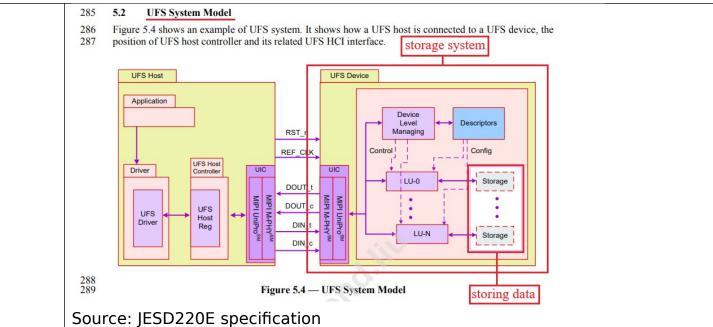
This standard has been prepared by JEDEC. The purpose of this standard is definition of a UFS Universal Flash Storage electrical interface and a UFS memory device. This standard defines a unique UFS feature set and includes the feature set of eMMC standard as a subset. This standard references several other standard specifications by MIPI (M-PHY and UniPro specifications) and INCITS T10 (SBC, SPC and SAM draft standards) organizations.

Introduction

The UFS electrical interface is a universal serial communication bus which can be utilized for different types of applications. It's based on MIPI M-PHY specification as physical layer for optimized performance and power. The UFS architectural model references the INCITS T10 SAM model for ease of adoption.

The UFS device is a universal data storage and communication media. It is designed to cover a wide area of applications as smart phones, cameras, organizers, PDAs, digital recorders, MP3 players, internet tablets, electronic toys, etc.

> storing data on a storage system



providing storage medium as part of the storage system;

The accused product discloses, providing a storage medium (e.g., NAND flash) as part of the storage system (e.g., the accused product).

As shown below, the accused product is a storage system based on UFS 3.1. It uses NAND flash as the storage medium.

UFS 3.1 Spec

	Part Number	<u>UFS</u> <u>Version</u>	Max Data Rate (MB/s)	S	upply Voltage	Operating	Darling Cine	
Capacity				Vcc (V)	Vccq (V)	Vccq2	Temperature (°C)	Package Size (mm)
256GB	THGJFGT1E45BAIP	2.4	2320	2.4 to 2.7,	1.145- 1.26	_ (1)	25.4- 05	11.0x13.0x0.8
512GB	THGJFGT2T85BAIU	3.1	2320	2.7 to 3.6	1.14 to 1.26	-00	-25 to 85	11.0x13.0x1.0

https://americas.kioxia.com/en-us/business/memory/mlc-nand/ufs.html

What is UFS 3.1 and how does it work?

Author: icDirectory · Date: June 24, 2024 15:06:29

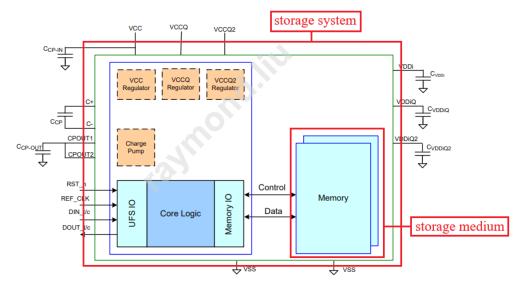
Universal Flash Storage (UFS) 3.1 is a high-performance storage technology designed for mobile devices, such as smartphones and tablets, but it can also be used in other applications like laptops, digital cameras, and automotive systems. UFS 3.1 builds upon the capabilities of its predecessor, UFS 3.0, offering improvements in speed, power efficiency, and overall performance. Here's a detailed look at what UFS 3.1 is, how it works, and the key features it brings to the table:

Architecture and Components

1. NAND Flash Memory:

- UFS 3.1 utilizes NAND flash memory, which is a type of non-volatile storage that retains data even when the device is powered off. NAND flash memory is known for its high density, fast read/write speeds, and durability.

https://www.icdirectory.com/blog/what-is-ufs-3-1-and-how-does-it-work-41004339.html



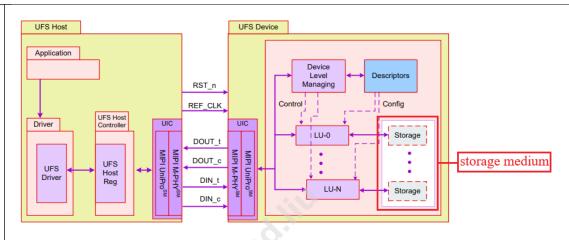


Figure 5.4 — UFS System Model

6453 13.4.17 WriteBooster

6454 13.4.17.1 Overview

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The write performance of <u>TLC NAND</u> is considerably lower than SLC NAND because the logically defined TLC bits require more programming steps and have higher error correction probability. To improve the write performance, part of the <u>TLC NAND</u> (normal storage) is configured as SLC NAND and used as write buffer, temporarily or permanently. Using SLC NAND as a WriteBooster Buffer enables the write request to be processed with lower latency and improves the overall write performance. Some portions of TLC NAND allocated for the user area are assigned as the WriteBooster Buffer. The data written in the WriteBooster Buffer can be flushed into TLC NAND storage by an explicit host command or implicitly while in hibernate (HIBERN8) state. Technologies other than TLC and SLC NAND may be used as normal storage and WriteBooster Buffer.

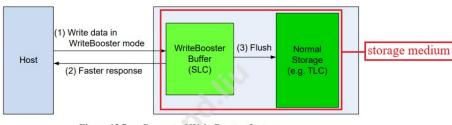


Figure 13.7 — Concept of WriteBooster feature

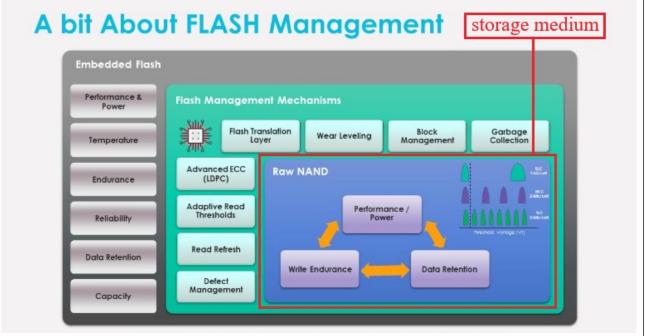
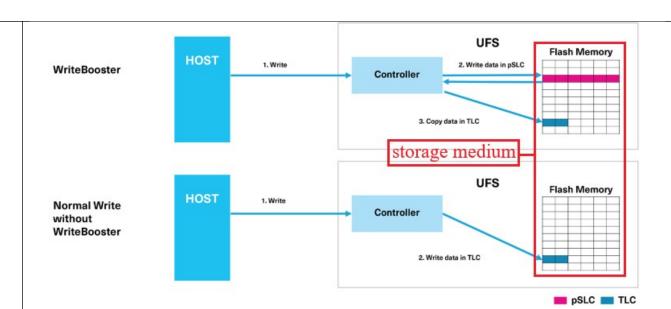


Figure 3. Flash memory needs management to optimize its characteristics.

https://www.5gtechnologyworld.com/six-design-considerations-for-local-data-storage/



https://americas.kioxia.com/content/dam/kioxia/en-us/business/memory/mlcnand/asset/KIOXIA WriteBooster Feature Tech Brief.pdf

on the storage data medium usina a first physical storage format attribute: and

storing general purpose The accused product discloses storing general purpose data (e.g., low-volume, non-critical data) on the storage medium (e.g., NAND flash) using a first physical storage format attribute (e.g., memory blocks configured as multi-bit per cell such as TLC, QLC or more).

> As shown below, the accused product is a storage system based on UFS 3.1. UFS 3.1 devices use multi-bit-per-cell technologies (TLC, QLC, and others) as the storage medium (NAND flash). Data from the host is written to the storage medium using Logical Units (LUs), each having memory blocks mapped to it. The UFS 3.1 specification includes a 'WriteBooster' feature, which creates an SLC buffer from TLC/QLC blocks. For time-critical and high-speed tasks, LUs mapped to the SLC buffer are used, whereas for low-volume, non-critical operations, such as saving data in the background, LUs mapped to the TLC/OLC blocks are used.

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UFS 3.1 Spec

Capacity	Part Number	<u>UFS</u> Version	Max Data	S	upply Voltage	Operating			
			Rate (MB/s)	Vcc (V)	Vccq (V)	Vccq2	Temperature (°C)	Package Size (mm)	
256GB	THGJFGT1E45BAIP	2.1	2320	3.1 2320	2.4 to 2.7,	1.145- 1.26	_ (1)	25.4- 05	11.0x13.0x0.8
512GB	THGJFGT2T85BAIU	3.1		2.7 to 3.6	1.14 to 1.26	- (1)	-25 to 85	11.0x13.0x1.0	

https://americas.kioxia.com/en-us/business/memory/mlc-nand/ufs.html

What is UFS 3.1 and how does it work?

Author: icDirectory · Date: June 24, 2024 15:06:29

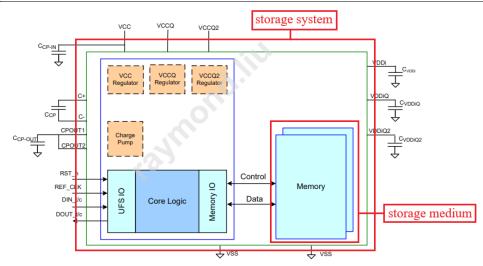
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1. NAND Flash Memory:

- UFS 3.1 utilizes NAND flash memory, which is a type of non-volatile storage that retains data even when the device is powered off. NAND flash memory is known for its high density, fast read/write speeds, and durability.

https://www.icdirectory.com/blog/what-is-ufs-3-1-and-how-does-it-work-41004339.html



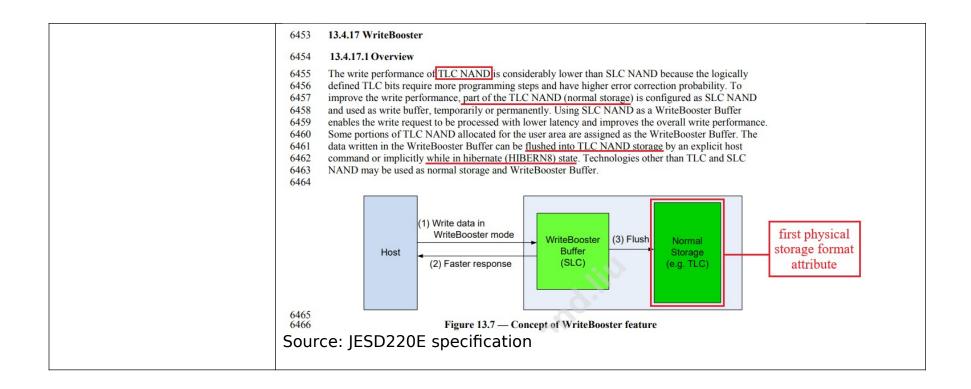
UFS Logical Units

UFS flash device is composed of memory blocks that are mapped to different Logical Units (LUs). UFS device address space is organized in several memory areas configurable by the user. In particular, such memory areas are denoted as logical units and characterized by the fact that they have independent logical addressable spaces starting from the logical address zero. Thus, a logical unit (LU) is an externally addressable, independent, processing entity that processes SCSI tasks (commands) and performs task management functions. Each logical unit is independent of other logical units in a device

https://software-dl.ti.com/processor-sdk-linux/esd/AM65X/07 00 01 06/ exports/docs/linux/Foundational Components/Kernel/Kernel Drivers/UFS.html

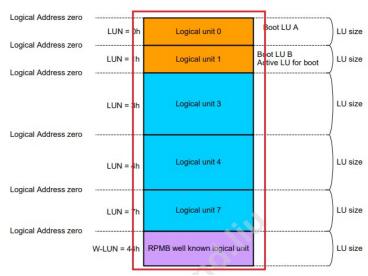
- Kilobyte: 1024 or 2¹⁰ bytes. 55
- 56 Logical Unit: A logical unit is an internal entity of a bus device that performs a certain function or
- addresses a particular space or configuration within a bus device.

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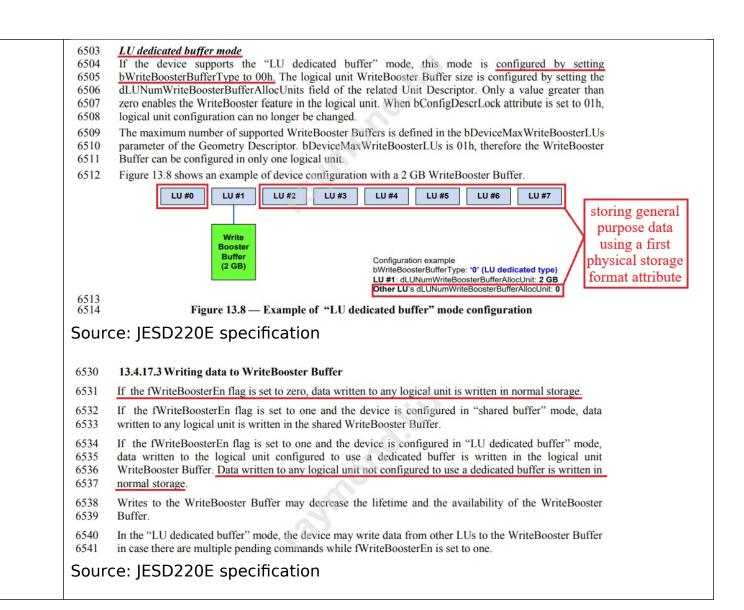
5500 13.2.3 Logical Unit Configuration (cont'd)

5501 Table 13.3 summarizes the configurable parameters per logical unit. See 14.1.4, Descriptor Definitions, 5502 for details about these parameters.

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Table 13.3 — Logical unit configurable parameters

Configurable	1 1 111 14		
Name	Description	Logical Unit	
bLUEnable	Logical Unit Enable	LU 0,, Maximum LU specified by bMaxNumberLU	
bBootLunID	Boot LUN ID	LU 0,, Maximum LU specified by bMaxNumberLU	
dLUNumWriteBoosterBufferAllocUnits	WriteBooster Buffer size for the corresponding Logical Unit	Valid only for LU 0,, LU 7	



In Figure 2 below, the top WriteBooster image shows how a pSLC buffer worsens the Write Amplification Factor⁴ (WAF) since data is written to the pSLC buffer first, and then written to the TLC user space. The bottom image represents normal write operations without the WriteBooster feature enabled and shows that the pSLC buffer is not being used. For this operation, data is written directly to the TLC user space.

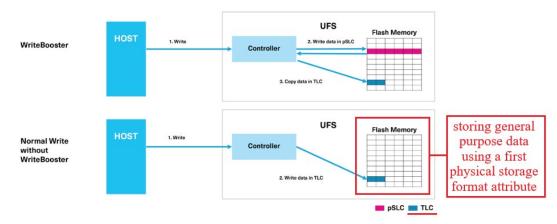


Figure 2 depicts write operations with and without the WriteBooster Feature enabled

https://americas.kioxia.com/content/dam/kioxia/en-us/business/memory/mlc-nand/asset/KIOXIA_WriteBooster_Feature_Tech_Brief.pdf

storing streaming data on the storage medium using a second physical storage format attribute different than said first physical storage format attribute;

The accused product discloses storing streaming data (high speed low latency data) on the storage medium (e.g., NAND flash) using a second physical storage format attribute (e.g., memory blocks configured as single-bit per cell, SLC) different than said first physical storage format attribute (e.g., memory blocks configured as multi-bit per cell such as TLC, QLC or more).

As shown below, the accused product is a storage system based on UFS 3.1. UFS 3.1 devices use multi-bit-per-cell technologies (TLC, QLC, and others) as the storage medium (NAND flash). Data from the host is written to the storage medium using Logical Units (LUs), each with memory blocks mapped to it. The UFS 3.1 specification includes a 'WriteBooster' feature, which creates an SLC buffer from TLC/QLC blocks. For time-critical and high-speed tasks, such as streaming or downloading data from a 5G connection, LUs mapped to the SLC buffer are used.

UFS 3.1 Spec

	Part Number	<u>UFS</u> <u>Version</u>	Max Data Rate (MB/s)	Supply Voltage			Operating			
Capacity				Vcc (V)	Vccq (V)	Vccq2 (V)	Temperature (°C)	Package Size (mm)		
256GB	THGJFGT1E45BAIP	3.1	2.1	2.1	2220	2.4 to 2.7,	1 14 to 1 26	_ (1)	75 to 95	11.0x13.0x0.8
512GB	THGJFGT2T85BAIU		3.1 2320	2.7 to 3.6	1.14 to 1.26	_(1)	-25 to 85	11.0x13.0x1.0		

https://americas.kioxia.com/en-us/business/memory/mlc-nand/ufs.html

How does 5G impact UFS (Universal Flash Storage)?

What is UFS Protocol? What is its connection with 5G?

The arrival of 5G is changing the way the smartphone is being used and leading the way to the next generation of mobile technology. The smartphone vendors are planning to offer seamless and immersive experiences on mobile devices. 5G offers ultra-fast transfers, low latency, and low power consumption on mobile devices. These high-speed data transfers mandate the need for high-speed storage interfaces such as UFS 4.0/3.0 on mobile devices.

streaming data

https://www.prodigytechno.com/how-does-5g-impact-ufs-universal-flashstorage

Prior to UFS 3.1, storage devices couldn't achieve the 500 MB/sec write performance needed for 5G. JEDEC added a feature called "write booster" where the host can tell the device "I want you to take a load of data and write it into a single-level cell (SLC) non-volatile cache to increase write speed." SLC has a higher threshold voltage than MLC and TLC in Figure 4. It's a new API just to enable 5G.

storing streaming data using a second physical storage format attribute

https://www.5gtechnologyworld.com/six-design-considerations-for-local-datastorage/

UFS 3.1 introduces a feature called Write Booster, which uses a small portion of the storage as SLC (Single Level Cell) NAND to speed up write operations. This is particularly useful for large file transfers or when you're downloading large apps or games.

storing streaming data using a second physical storage format attribute

https://www.blackview.hk/blog/tech-news/ufs-3-1-storage-speed

What is UFS 3.1 and how does it work?

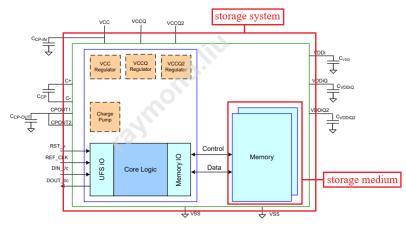
Author: icDirectory · Date: June 24, 2024 15:06:29

Universal Flash Storage (UFS) 3.1 is a high-performance storage technology designed for mobile devices, such as smartphones and tablets, but it can also be used in other applications like laptops, digital cameras, and automotive systems. UFS 3.1 builds upon the capabilities of its predecessor, UFS 3.0, offering improvements in speed, power efficiency, and overall performance. Here's a detailed look at what UFS 3.1 is, how it works, and the key features it brings to the table:

Architecture and Components

1. NAND Flash Memory:
- UFS 3.1 utilizes NAND flash memory, which is a type of non-volatile storage that retains data even when the device is powered off. NAND flash memory is known for its high density, fast read/write speeds, and

https://www.icdirectory.com/blog/what-is-ufs-3-1-and-how-does-it-work-41004339.html



UFS Logical Units

UFS flash device is composed of memory blocks that are mapped to different Logical Units (LUs). UFS device address space is organized in several memory areas configurable by the user. In particular, such memory areas are denoted as logical units and characterized by the fact that they have independent logical addressable spaces starting from the logical address zero. Thus, a logical unit (LU) is an externally addressable, independent, processing entity that processes SCSI tasks (commands) and performs task management functions. Each logical unit is independent of other logical units in a device

https://software-dl.ti.com/processor-sdk-linux/esd/AM65X/07_00_01_06/exports/docs/linux/Foundational Components/Kernel/Kernel Drivers/UFS.html

- 55 Kilobyte: 1024 or 2¹⁰ bytes.
- 56 Logical Unit: A logical unit is an internal entity of a bus device that performs a certain function or
- 57 addresses a particular space or configuration within a bus device.

Source: JESD220E specification

6453 13.4.17 WriteBooster

6454 13.4.17.1 Overview

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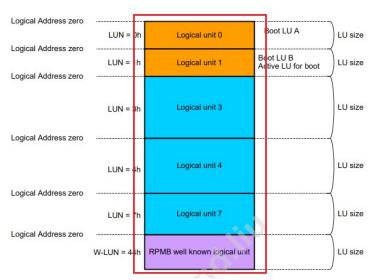
6465

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- The write performance of TLC NAND is considerably lower than SLC NAND because the logically
- defined TLC bits require more programming steps and have higher error correction probability. To
- 6457 improve the write performance, part of the TLC NAND (normal storage) is <u>configured as SLC NAND</u>
- 6458 and used as write buffer, temporarily or permanently. <u>Using SLC NAND as a WriteBooster Buffer</u>
- enables the write request to be processed with lower latency and improves the overall write performance.
- Some portions of TLC NAND allocated for the user area are assigned as the WriteBooster Buffer. The
- data written in the WriteBooster Buffer can be flushed into TLC NAND storage by an explicit host
- 6462 command or implicitly while in hibernate (HIBERN8) state. Technologies other than TLC and SLC
- 6463 NAND may be used as normal storage and WriteBooster Buffer.

(1) Write data in WriteBooster mode WriteBooster 3) Flush Normal Buffer Host Storage (2) Faster response (SLC) (e.g. TLC) Figure 13.7 — Concept of WriteBooster feature second physical storage first physical storage format attribute format attribute





5500 13.2.3 Logical Unit Configuration (cont'd)

5503

5501 Table 13.3 summarizes the configurable parameters per logical unit. See 14.1.4, Descriptor Definitions, 5502 for details about these parameters.

Table 13.3 — Logical unit configurable parameters

Configurable	La minal Illuit			
Name	Description	Logical Unit		
bLUEnable	Logical Unit Enable	LU 0,, Maximum LU specified by bMaxNumberLU		
bBootLunID	Boot LUN ID	LU 0,, Maximum LU specified by bMaxNumberLU		
dLUNumWriteBoosterBufferAllocUnits	WriteBooster Buffer size for the corresponding Logical Unit	Valid only for LU 0,, LU 7		

		GEO	METRY DI	ESCRIPTOR
Offset	Size	Name	Value	Description
54h 1				Capacity Adjustment Factor for the WriteBooster Buffer memory type.
				This value provides the LBA space reduction multiplication factor when WriteBooster Buffer is configured in user space reduction mode. Therefore, this parameter applies only if bWriteBoosterBufferPreserveUserSpaceEn is 00h
				For "LU dedicated buffer" mode, the total user space is decreased by the following amount:
	1	bWriteBoosterBufferCapA djFac	Device specific	bWriteBoosterBufferCapAdjFac * dLUNumWriteBoosterBufferAllocUnits * bAllocationUnitSize * dSegmentSize * 512 byte'.
				For "shared buffer" mode, the total user space is decreased by by the following amount:
				bWriteBoosterBufferCapAdjFac *
				dNumSharedWriteBoosterBufferAllocUnits * bAllocationUnitSize * dSegmentSize * 512 byte.
				The value of this parameter is 3 for TLC NAND when SLC mode is used as WriteBooster Buffer. 2

LU dedicated buffer mode 6503

6504 If the device supports the "LU dedicated buffer" mode, this mode is configured by setting bWriteBoosterBufferType to 00h. The logical unit WriteBooster Buffer size is configured by setting the 6505 6506 dLUNumWriteBoosterBufferAllocUnits field of the related Unit Descriptor. Only a value greater than 6507 zero enables the WriteBooster feature in the logical unit. When bConfigDescrLock attribute is set to 01h,

6508 logical unit configuration can no longer be changed.

6509 The maximum number of supported WriteBooster Buffers is defined in the bDeviceMaxWriteBoosterLUs

6510 parameter of the Geometry Descriptor. bDeviceMaxWriteBoosterLUs is 01h, therefore the WriteBooster

Buffer can be configured in only one logical unit. 6511

6512 Figure 13.8 shows an example of device configuration with a 2 GB WriteBooster Buffer.

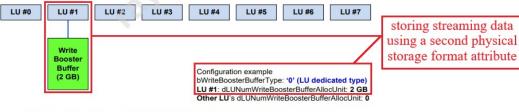


Figure 13.8 — Example of "LU dedicated buffer" mode configuration

6530 13.4.17.3 Writing data to WriteBooster Buffer

- 6531 If the fWriteBoosterEn flag is set to zero, data written to any logical unit is written in normal storage.
- 6532 If the fWriteBoosterEn flag is set to one and the device is configured in "shared buffer" mode, data
- written to any logical unit is written in the shared WriteBooster Buffer.
- 6534 If the fWriteBoosterEn flag is set to one and the device is configured in "LU dedicated buffer" mode,
- data written to the logical unit configured to use a dedicated buffer is written in the logical unit
- WriteBooster Buffer. Data written to any logical unit not configured to use a dedicated buffer is written in
- 6537 normal storage.
- 6538 Writes to the WriteBooster Buffer may decrease the lifetime and the availability of the WriteBooster
- 6539 Buffer.
- 6540 In the "LU dedicated buffer" mode, the device may write data from other LUs to the WriteBooster Buffer
- in case there are multiple pending commands while fWriteBoosterEn is set to one.

Source: JESD220E specification

In Figure 2 below, the top WriteBooster image shows how a pSLC buffer worsens the Write Amplification Factor⁴ (WAF) since data is written to the pSLC buffer first, and then written to the TLC user space. The bottom image represents normal write operations without the WriteBooster feature enabled and shows that the pSLC buffer is not being used. For this operation, data is written directly to the TLC user space.

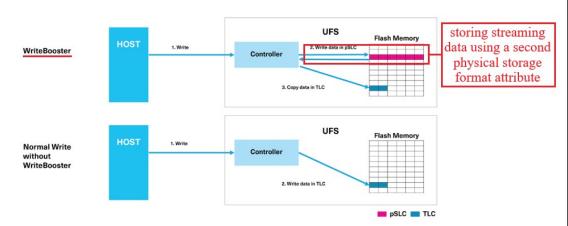


Figure 2 depicts write operations with and without the WriteBooster Feature enabled

https://americas.kioxia.com/content/dam/kioxia/en-us/business/memory/mlc-nand/asset/KIOXIA_WriteBooster_Feature_Tech_Brief.pdf

said first and second The accused product discloses storing data using first and second physical

physical storage attributes being associated with differing storage qualities selected from the group consisting of: resilience to errors, data integrity, storage density, and storage capacity.

storage attributes (e.g., memory blocks configured as single-bit per cell, SLC and multi-bit per cell such as TLC, QLC or more), said first and second physical storage attributes (e.g., memory blocks configured as single-bit per cell, SLC and multi-bit per cell such as TLC, QLC or more) being associated with differing storage qualities selected from the group consisting of: resilience to errors, data integrity, storage density, and storage capacity.

As shown below, the accused product is a storage system based on UFS 3.1. UFS 3.1 devices use multi-bit-per-cell technologies (TLC, QLC, and others) as the storage medium (NAND flash). Data from the host is written to the storage medium using Logical Units (LUs), each having memory blocks mapped to it. The UFS 3.1 specification includes a 'WriteBooster' feature, which creates an SLC buffer from TLC/QLC blocks. For time-critical and high-speed tasks, such as streaming or downloading data from a 5G connection, LUs mapped to the SLC buffer are used, whereas for low-volume, non-critical operations, such as saving data in the background, LUs mapped to the TLC/QLC blocks are used.

Furthermore, the SLC and TLC/QLC blocks used to store different types of data differ in storage qualities such as speed, storage density, resilience to errors, endurance, and more. SLC blocks are much faster than TLC/QLC blocks and have higher resilience to errors. TLC/QLC blocks have triple or quadruple the storage density of SLC blocks. For the same price, TLC/QLC blocks provide more storage capacity compared to SLC blocks.

UFS 3.1 Spec

	Part Number	<u>UFS</u> <u>Version</u>	Max Data Rate (MB/s)	Supply Voltage			Operating	Darling Cine
Capacity				Vcc (V)	Vccq (V)	Vccq2 (V)	Temperature (°C)	Package Size (mm)
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512GB	THGJFGT2T85BAIU	3.1	2320	2.7 to 3.6	1.14 to 1.26	- (1)	-25 to 85	11.0x13.0x1.0

https://americas.kioxia.com/en-us/business/memory/mlc-nand/ufs.html

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https://www.icdirectory.com/blog/what-is-ufs-3-1-and-how-does-it-work-41004339.html

6453 13.4.17 WriteBooster

6454 13.4.17.1 Overview

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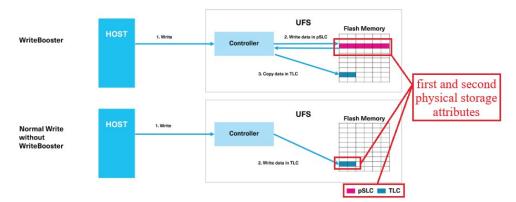
Some portions of <u>TLC NAND</u> allocated for the user area are assigned as the WriteBooster Buffer. The

data written in the WriteBooster Buffer can be flushed into <u>TLC NAND</u> storage by an explicit host command or implicitly while in hibernate (HIBERN8) state. Technologies other than TLC and SLC

NAND may be used as normal storage and WriteBooster Buffer.

(1) Write data in WriteBooster mode WriteBooster 3) Flush Normal Buffer Host Storage (SLC) (e.g. TLC) (2) Faster response 6465 Figure 13.7 — Concept of WriteBooster feature 6466 second physical storage first physical storage format attribute format attribute

In Figure 2 below, the top WriteBooster image shows how a p<u>SLC</u> buffer worsens the Write Amplification Factor⁴ (WAF) since data is written to the <u>pSLC</u> buffer first, and then written to the <u>TLC</u> user space. The bottom image represents normal write operations without the WriteBooster feature enabled and shows that the <u>pSLC</u> buffer is not being used. For this operation, data is written directly to the <u>TLC</u> user space.



https://americas.kioxia.com/content/dam/kioxia/en-us/business/memory/mlc-nand/asset/KIOXIA WriteBooster Feature Tech Brief.pdf

	GEOMETRY DESCRIPTOR									
Offset	Size	Name	Value	Description						
54h	1	bWriteBoosterBufferCapA djFac	Device specific	Capacity Adjustment Factor for the WriteBooster Buffer memory type. This value provides the LBA space reduction multiplication factor when WriteBooster Buffer is configured in user space reduction mode. Therefore, this parameter applies only if bWriteBoosterBufferPreserveUserSpaceEn is 00h. For "LU dedicated buffer" mode, the total user space is decreased by the following amount: bWriteBoosterBufferCapAdjFac * dLUNumWriteBoosterBufferAllocUnits * bAllocationUnitSize * dSegmentSize * 512 byte'. For "shared buffer" mode, the total user space is decreased by by the following amount: bWriteBoosterBufferCapAdjFac * dNumSharedWriteBoosterBufferAllocUnits * bAllocationUnitSize * dSegmentSize * 512 byte. The value of this parameter is 3 for TLC NAND when SLC mode is used as WriteBooster Buffer. 2 for MLC NAND.						



